

## New Distributional data on the Fruit Flies (Diptera: Tephritidae) in Iran

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**New distributional data on the fruit flies (Diptera: Tephritidae) in Iran. Mohamadzade Namin, S. Summary.** Based on recent collecting and material deposited at Hayk Mirzayans Insect Museum, Iranian Research Institute of Plant Protection (Tehran) new records of 65 fruit flies species in the provinces of Iran is provided conspicuously extending known distribution for almost half of known tephritid species of Iranian fauna.

**Key words:** Diptera, Tephritidae, fruit flies, Iran, distribution.

**Нові відомості про поширення мух-осетниць (Diptera: Tephritidae) в Ірані. Мохамадзаде-Намін, С. Резюме.** На основі зборів, зроблених в останній час та матеріалу, що зберігається у Музеї комах Хайка Мірзояна Іранського дослідного інституту захисту рослин у Тегерані, 65 видів мух-осетниць зазначено вперше для різних провінцій Ірану, що суттєво розширює відомості про поширення майже половини видів осетниць фауни Ірану.

**Ключові слова:** Diptera, Tephritidae, мухи-осетниці, Іран, поширення.

**Новые сведения о распространении мух-пестрокрылок (Diptera: Tephritidae) в Иране. Мохамадзаде-Намин, С. Резюме.** На основании сборов, сделанных в последнее время и материала, хранящегося в Музее насекомых Хайка Мирзояна Иранского исследовательского института защиты растений в Тегеране, 65 видов мух-пестрокрылок впервые отмечены для различных провинций Ирана, что существенно расширяет сведения о распространении почти половины видов пестрокрылок фауны Ирана.

**Ключевые слова:** Diptera, Tephritidae, мухи-пестрокрылки, Иран, распространение.

### Introduction

The family Tephritidae is one of the most economically important families of acalyprate Diptera. Larvae develop in fruits, leaf-mines or within flower heads of Asteraceae plants. Some species are serious pests in agriculture and some other species useful for the control of weeds (White, 1988).

Iran is a large country covering an area of 1.623.779 km<sup>2</sup> (Zehzad *et al.*, 2002). About 140 species of the family Tephritidae are recorded from Iran by different authors (see Mohamadzade Namin *et al.*, 2010; Mohamadzade Namin, 2011; Mohamadzade Namin & Nozari, 2011; Korneyev & Dirlbek, 2016; Seddighi Sadr & Mohamadzade Namin, 2016, for references) but the distribution of most of the species still has not been completely studied. During studies on fruit flies fauna in Iran since 2007 and studying at Hayk Mirzayans Insect Museum, Iranian Research Institute of Plant Protection, Tehran: Iran (HMIM), new distributional records for 65 species of family Tephritidae are made.

### Material and methods

Material was collected by a standard sweeping net or reared from the flower heads of asteraceous plants. Unless other collector is mentioned, all the specimens were collected by the author and deposited in his personal collection.

### List of species

#### Subfamily Dacinae

##### Tribe Dacini

#### *Bactrocera oleae* (Rossi, 1790)

**Material examined. Qazvin:** 7♂, 12♀, Loshan, Kallaj village, 24.09.2006; **Golestan,** 1♂, 2♀, Minoodasht, 13.09.2006.

**Subfamily Trypetinae****Tribe Carpomyini*****Carpomya vesuviana* Costa, 1854**

**Material examined.** Ardebil: 1♂, 20 km E Namin, 1500 m, 38°26'N, 48°33'E, 01.08.2013.

**Tribe Trypetini*****Euleia heraclei* (Linnaeus, 1758)**

**Material examined.** Chaharmahal & Bakhtiari: 1♀, Chelgerd, Sheykh Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013.

**Subfamily Tephritinae****Tribe Terelliini*****Chaetorellia conjuncta* (Becker, 1913)**

**Material examined.** Chaharmahal & Bakhtiari: 2♂, 3♀, Chelgerd, Sheykh Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013; Khuzistan: 4♂, 4♀, 40 km N Ahvaz, ex flower heads of *Centaurea* sp., coll. 28.03.2013, exit 6–11.04.2013.

***Chaetorellia jaceae* (Robineau-Desvoidy, 1830)**

**Material examined.** Khuzistan: 2♂, 3♀, 40 km N Ahvaz, ex flower heads of *Centaurea* sp., coll. 28.03.2013, exit 6–11.04.2013.

***Chaetostomella cylindrica* (Robineau-Desvoidy, 1830)**

**Material examined.** Mazandaran: 1♂, 7 km W Kelardasht, ex flower heads of *Centaurea* sp., coll. 13.06.2009, exit 22.06.2009.

***Orellia falcata* (Scopoli, 1763)**

**Material examined.** Chaharmahal & Bakhtiari: 2♂, Shahrekord, 2600 m, 32°19'N, 50°50'E, 07.06.2013; Kohkiluyeh & Boyerahmad: 1♂, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014; Mazandaran: 1♂, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 2.07.2010.

***Orellia stictica* (Gmelin, 1790)**

**Material examined.** Mazandaran: 2♂, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 25.04.2011; Qazvin: 1♂, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014.

***Terellia fuscicornis* (Loew, 1844)**

**Material examined.** Ardebil: 1♂, Sarein, Vargehsaran village, 2950 m, 38°12'N, 47°54'E, 5.07.2014.

***Terellia gynaechroma* (Hering, 1937)**

**Material examined.** Chaharmahal & Bakhtiari: 6♂, 4♀, Gahru, 2100 m, 32°01'N, 50°51'E, 08.06.2013.

***Terellia korneyevorum* Mohamadzade Namin, 2011**

**Material examined.** Chaharmahal & Bakhtiari: 1♂, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 28.05.2014; Fars: 1♀, Kohmareh Sorkhi, 1950 m, 29°38'N, 50°11'E, 24.05.2014; 1♂, Shourjestan, 2100 m, 31°21'N, 52°25'E, 23.05.2014; Markazi: 2♂, Shazand, 03.06.2013.

***Terellia nigripalpis* Hendel, 1927**

**Material examined.** Ardebil: Sabalan mountain, 2700 m, 38°19'N, 47°50'E, 02.08.2013; West Azerbaijan: 2♂, 5♀, 10 km west Ziveh, 37°08'N, 44°52'E, 2630 m, 31.08.2011.

***Terellia quadratula* (Loew, 1869)**

**Material examined.** Ardebil: 4♂, 17♀, 20 km E Namin, 1500 m, 38°26'N, 48°33'E, 06.06.2014.

***Terellia ruficauda* (Fabricius, 1794)**

**Material examined.** Ardebil: 1♂, 1 km W Namin, 1400 m, 38°24'N, 48°28'E, 06.06.2014.

***Terellia tussilaginis* (Fabricius, 1775)**

**Material examined.** East Azerbaijan: 1♂, Varzogh, 26.06.2014; Mazandaran: 1♀, Plour, 2200 m, 35°50'N, 52°03'E, 22.06.2013.

***Terellia uncinata* White, 1989**

**Material examined.** Kohkiluyeh & Boyerahmad: 3♂, 8♀, Madaran, 1850 m, 30°43'N, 51°33'E, 27.05.2014.

***Terellia virpana* Dirlbek, 1980**

**Material examined.** Kurdistan: 4♂, 3♀, Sanandaj, 30 km N Sanandaj, 13.06.2014; Markazi: 1♂, Karahrood, 14.06.2009.

***Terellia whitei* Korneyev & Mohamadzade Namin, 2013**

**Material examined.** Kohkiluyeh & Boyerahmad: 3♀, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014.

***Terellia zerovae* Korneyev, 1985**

**Material examined.** **Chaharmahal & Bakhtiari:** 5♂, 1♀, Chelgerd, Sheykh Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013; 6♂, 8♀, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 28.05.2014; **Fars:** 5♂, 3♀, Aramgah Korush, 1920 m, 39°07'N, 33°43'E, 14.05.2012.

**Tribe Myopitini*****Urophora affinis* (Frauenfeld, 1857)**

**Material examined.** **Alburz Province,** 1♂, Shahrestanak, 22.06.2009; **Chaharmahal & Bakhtiari:** 2♂, 8♀, Gahru, 2100 m, 31°59'N, 50°52'E, 27.05.2014; **Fars:** 4♂, 1♀, Dasht Arjan, 2070 m, 29°40'N, 52°00'E, 24.05.2014; **Qazvin:** 2♂, 2♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 07.07.2014; **West Azerbaijan:** 2♂, 4♀, 10 km west Ziveh, 37°07'N, 44°48'E, 3050 m, 25.06.2011.

***Urophora longicauda* (Hendel, 1927)**

**Material examined.** **Ardebil:** 12♂, 15♀, Sarein, Vargehsaran village, 2950 m, 38°12'N, 47°54'E, 5.07.2014; **Khorasan Razavi:** 2♂, 2♀, Binaloud Mountain, 10 km NW Dizbad, 2400 m, 36°06'N, 59°14'E, ex flower heads of *Cousinia* sp. coll. 15.07.2011, exit 28.07.2011.

***Urophora mauritanica* Macquart, 1851**

**Material examined.** **Mazandaran:** 2♂, 2♀, 7 km W Kelardasht, 13.05.2013.

***Urophora melanocera* (Hering, 1938)**

**Material examined.** **Ardebil:** 2♀, 20 km E Namin, 1500 m, 38°26'N, 48°33'E, 01.08.2013; **Kohkiluyeh & Boyerahmad:** 5♂, 11♀, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, ex flower heads of *Cousinia* sp., coll. 26.05.2014, exit 3–6.06.2014; **Qazvin:** 5♂, 6♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014.

***Urophora merzi* Mohamadzade Namin & Nozari, 2011**

**Material examined.** **Kurdistan,** 2♂, 1♀, Bijar, 2000 m, ex flower heads of *Centaurea behen*, coll. 20.07.2010, exit 01.08.2010; **West Azerbaijan:** 1♂, 1♀, Qazemloo valley, 1500 m, 37°18'N, 45°07'E, 19.06.2014.

***Urophora pauperata* (Zaitzev, 1945)**

**Material examined.** **Chaharmahal & Bakhtiari:** 1♂, 2♀, Chelgerd, Sheykh Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013; **Fars:** 2♀, Dasht Arjan, 2070 m, 29°40'N, 52°00'E, 24.05.2014; **Qazvin:** 2♂, 1♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014.

***Urophora phaeocera* (Hering, 1961)**

**Material examined.** **Chaharmahal & Bakhtiari:** 2♂, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 08.06.2013; **Fars:** 3♂, 4♀, Dasht Arjan, 2070 m, 29°40'N, 52°00'E, 24.05.2014.

***Urophora pontica* (Hering, 1937)**

**Material examined.** **Mazandaran:** 1♀, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 27.06.2013. **Qazvin:** 10♂, 1♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 14.06.2010; **Tehran:** 1♂, 5 km North East Abali, 2440 m, 35°46'N, 51°58'E, 27.06.2013.

***Urophora quadrifasciata quadrifasciata* (Meigen, 1826)**

**Material examined.** **Alburz:** 1♂, Shahrestanak, 22.06.2009; **Qazvin:** 1♂, 1♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 07.07.2010; **West Azerbaijan:** 2♀, Qazemloo valley, 1500 m, 37°18'N, 45°07'E, 19.06.2014.

***Urophora quadrifasciata sjumorum* (Rohdendorf, 1937)**

**Material examined.** **Chaharmahal & Bakhtiari:** 2♀, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 28.05.2014.

***Urophora sirunaseva* (Hering, 1938)**

**Material examined.** **Alburz:** 2♂, 1♀, Taleghan, Zidasht, 1900 m, 36°09'N, 50°42'E, 21.05.2008; **Kurdistan Province:** 1♀, Bijar, 2000 m 21.07.2009; **Qazvin:** 2♂, 2♀, Khoznan, 2150 m, 36°07'N, 50°32'E, 12.07.2010.

***Urophora solstitialis* (Linnaeus, 1758)**

**Material examined.** **Gilan:** 2♂, 7♀, 5 km E Rostamabad, 05.06.2015 (Seddighi Sadr leg.).

***Urophora terebrans* (Loew, 1850)**

**Material examined.** **Mazandaran:** 4♂, 4♀, Haraz road, Rineh, South mountainside of Damavand, ex flower heads of *Carduus* sp., 2500 m, 35°52'N, 52°06'E, coll. 27.06.2013, exit 8.07.2013; 3♂, 4♀, Kelardasht, ex flower heads of *Onopordum* sp., coll. 12.06.2008, exit 16–24.06.2008.

**Tribe Noeetitini*****Hypenidium roborowskii* (Becker, 1908)**

**Material examined.** **Khorasan Razavi:** 1♂, Chaldran, Firizi village, 1760 m, 36°28'N, 58°56'E, 15.07.2011.

**Tribe Dithrycini*****Oedaspis ragdai* Hering, 1940**

**Material examined. Khorasan Razavi:** 2♂, 3♀, Chaldran, Firizi village, 1760 m, 36°28'N, 58°56'E, ex stem galls of *Artemisia* sp., coll. 15.07.2011, exit 19.08.2011.

**Tribe Tephrellini*****Aciura afghana* (Hering, 1961)**

**Material examined. Mazandaran:** 1♂, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 27.06.2013.

***Oxyaciura tibialis* (Robineau-Desvoidy, 1830)**

**Material examined. Khorasan Razavi:** 1♂, Chaldran, Firizi village, 1760 m, 36°28'N, 58°56'E, 15.07.2011; **Kurdistan,** 1♂, Sanandaj, Abidar mountain, 1750 m, 35°44'N, 46°59'E, 14.06.2014; **Mazandaran:** 3♂, 4♀, Amol, Baladeh, 17.08.2010 (Barimani leg.).

**Tribe Tephritini*****Acanthiophilus helianthi* (Rossi, 1794)**

**Material examined. Alburz:** 1♂, 2♀, Shahrestanak, 22.06.2009; **Qazvin:** 1♂, Khoznan, 2150 m, 36°07'N, 50°32'E, 12.07.2010; 1♂, 3♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014; **West Azerbaijan:** 1♂, 1♀, Gharah Ziauddin, 1.07.2010.

***Actinoptera discoidea* (Fallén, 1814)**

**Material examined. Fars:** 2♂, Dasht Arjan, 2070 m, 29°40'N, 52°00'E, 24.05.2014; **Qazvin:** 1♂, 2♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014; **West Azerbaijan:** 1♂, 1♀, 10 km west Ziveh, 37°08'N, 44°52'E, h 2700 m, 24.07.2011.

***Campiglossa difficilis* (Hendel, 1927)**

**Material examined. Qazvin:** 1♂, Khoznan, 2150 m, 36°07'N, 50°32'E, 12.07.2010.

***Campiglossa misella* (Loew, 1869)**

**Material examined. Mazandaran:** 1♀, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 24.07.2011.

***Campiglossa producta* (Loew, 1844)**

**Material examined. Alburz:** 1♂, 1♀, Taleghan, Zidasht, 1900 m, 36° 09'N, 50° 42'E, 21.05.2008; **Chaharmahal & Bakhtiari:** 3♂, 4♀, Chelgerd, Sheyk

Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013; **Mazandaran:** 1♀, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 24.07.2011; 2♂, 2♀, Amol, Baladeh, 17.08.2010 (Barimani leg.).

***Dioxyna bidentis* (Robineau-Desvoidy, 1830)**

**Material examined. Mazandaran:** 1♀, Kheiroud kenar forest, 15.06.2009.

***Euaresta bullans* (Wiedemann, 1830)**

**Material examined. Mazandaran:** 1♀, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 21.09.2008; **Tehran:** 1♀, Robat karim, 20.08.2008.

***Goniurellia lacerata* (Becker, 1913)**

**Material examined. Chaharmahal & Bakhtiari:** 1♂, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 08.06.2013; **Khorasan Razavi:** 2♂, Binaloud Mountain, 10 km NW Dizbad, 2400 m, 36°06'N, 59°14'E, 15.07.2011

***Oxyna nebulosa* (Wiedemann, 1817).**

**Material examined. East Azerbaijan:** 1♀, 30 km SE Tabriz, Sahand ski resort, 37°45'N 46°30'E, 2900 m, 25.07.2012; **West Azerbaijan:** 3♂, 3♀, 10 km west Ziveh, 37°08'N, 44°52'E, h 2700 m, 24.07.2011.

***Sphenella marginata* (Fallén, 1814)**

**Material examined. Alburz:** 3♂, Taleghan, Fashandak, 1800 m, 36°09'N, 50°42'E, 16.09.2009; **East Azerbaijan:** 1♀, 30 km SE Tabriz, Sahand ski resort, 37°45'N 46°30'E, 2900 m, 25.07.2012.

***Tephritis acanthiophilopsis* Hering, 1938**

**Material examined. Alburz:** 1♀, Karaj-Chalous road, 3 km N Kandovan Tunnel, 2590 m, 36°10'N, 51°18'E, 22.06.2009; **Tehran:** 4♂, 5♀, 5 km North East Abali, 2440 m, 35°46'N, 51°58'E, 8.08.2008; **Mazandaran Province,** 4♂, 3♀, Plour, 2200 m, 35°50'N, 52°03'E, 27.06.2013.

***Tephritis angulatifasciata* Portschinsky, 1892**

**Material examined. Kohkiluyeh & Boyerahmad:** 2♂, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014.

***Tephritis azari* Mohamadzade Namin & Korneyev, 2012**

**Material examined. Kurdistan,** 1♀, Sanandaj, Abidar mountain, 1750 m, 35°44'N, 46°59'E, 14.06.2014.



***Tephritis bardanae* (Schrank, 1803)**

**Material examined.** Alburz: 3♂, Taleghan, Mehran village, swept on *Arctium lappa*, 2120 m, 36°12'N, 50°55'E, 16.09.2009; 8♂, 2♀, same collection data, 12.06.2010; 1♀, Karaj-Chalous road, 3 km N Kandovan Tunnel, 2590 m, 36°10'N, 51°18'E, 22.06.2009; **Mazandaran:** 3♂, 5♀, Amol, Baladeh, swept on *Arctium lappa*, 17.08.2010 (Barimani leg.); **West Azerbaijan:** 1♂, Gharah Ziauddin, 1.07.2010.

***Tephritis cameo* Korneyev, 2013**

**Material examined.** Kohkiluyeh & Boyerahmad: 5♂, 5♀, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014.

***Tephritis erdemlii* Kütük, 2008**

**Material examined.** West Azerbaijan: 6♂, 8♀, 10 km west Ziveh, 37°08'N, 44°52'E, 2630 m, 31.08.2011.

***Tephritis hurvitzii* Freidberg, 1981**

**Material examined.** Qazvin: 1♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014.

***Tephritis multiguttata* (Becker, 1913)**

**Material examined.** Alburz: 1♂, Taleghan, Zidasht, 1900 m, 36°09'N, 50°42'E, 21.05.2008; **East Azerbaijan:** 2♂, 3♀, 30 km SE Tabriz, Sahand ski resort, 37°45'N 46°30'E, 2900 m, 02.09.2011; 1♂, 2♀, same collection data, 25.08.2011; **Qazvin:** 6♂, 9♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014; 5♂, 2♀, same collection data, 07.07.2014; **Mazandaran:** 1♂, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 2.07.2010; **West Azerbaijan:** 4♀, Qazemloo valley, 1500 m, 37°18'N, 45°07'E, 19.06.2014.

***Tephritis nozarii* Mohamadzade Namin, 2011**

**Material examined.** Chaharmahal & Bakhtiari: 3♂, 4♀, Chelgerd, Sheykh Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013; 7♂, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 08.06.2013; 5♂, 8♀, same collection data, 28.05.2014; **Kohkiluyeh & Boyerahmad:** 2♂, 2♀, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014; **Qazvin:** 2♂, 2♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 07.07.2014;

***Tephritis pallescens* Hering, 1961**

**Material examined.** Kohkiluyeh & Boyerahmad Province: 3♂, 1♀, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014.

***Tephritis postica* (Loew, 1844)**

**Material examined.** Chaharmahal & Bakhtiari: 1♂, 1♀, Gahru, 2100 m, 32°01'N, 50°51'E, 08.06.2013; **Khuzistan:** 2♂, 2♀, 10 km SW Masjed Soleyman, swept on flower heads of *Onopordum acanthium*, 25.03.2013; 1♂, 1♀, 25 km W Sardasht, swept on flower heads of *Onopordum acanthium*, 25.03.2013; 7♂, 5♀, Dezful, 20 km W Saland, 450 m, 32°29'N, 48°48'E, 08.06.2013; **Kohkiluyeh & Boyerahmad:** 1♂, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014; **Mazandaran:** 2♂, 4♀, Kelardasht, ex flower heads of *Onopordum* sp., coll. 12.06.2008, exit 17–22.06.2008; **Qazvin:** 1♂, Khoznan, 2150 m, 36°06'N, 50°39'E, 07.07.2014.

***Tephritis praecox* (Loew, 1844)**

**Material examined.** Mazandaran: 1♂, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 10.05.2011.

***Tephritis sahandi* Mohamadzade Namin, Korneyev & Khaghaninia, 2012**

**Material examined.** Kohkiluyeh & Boyerahmad: 1♀, Sisakht, Bijan pass, 3200–3400 m, 30°52'N, 51°31'E, 26.05.2014; **Qazvin:** 1♀, Khoznan, 2150 m, 36°06'N, 50°39'E, 03.06.2014.

***Tephritis pulchra* (Loew, 1844)**

**Material examined.** Markazi: 1♂, Arak.

***Tephritomyia despoliata* (Hering, 1956)**

**Material examined.** Khorasan Razavi: 11♂, 11♀, Chaldran, Firizi village, 1760 m, 36°28'N, 58°56'E, ex flower heads of *Echinops* sp. coll. 15.07.2011, exit 24–30.07.2011.

**Measurment.** Body length (excluding ovicape): 4.8–6; Wing length: 4.8–5.3; Aculeus length: 1.5–1.75.

**Note.** *Tephritomyia despoliata* strongly resemble European specimens of *T. lauta* in body, wing and aculeus size, and reticulate wing pattern. *T. despoliata* differs from *T. lauta* by the paler and reduced wing pattern (darker in *T. lauta*) and acute aculeus tip (rounded in *T. lauta*). The specimens collected in Yazd Province (examined by the author but not listed here) have paler and reduced wing pattern as in *T. despoliata*, differing by the aculeus tip shape from both species, possibly representing either a morph of *T. despoliata*, or a new, undescribed species.

***Tephritomyia lauta* (Loew, 1869)**

**Material examined.** Alburz: 5♂, 7♀, Taleghan, Hasan joon village, 2000 m, 36°12'N, 50°45'E, 30.08.2009; 2♂, 2♀, Taleghan, Fashandak, 1800 m, 36°09'N, 50°42'E, 16.09.2009; 2♀, Karaj, Baraghan,

11.09.2009; **Chaharmahal & Bakhtiari**: 2♂, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 08.06.2013; 1♀, Chelgerd, Sheykh Alikhan, 2800 m, 32°31'N, 50°00'E, 05.06.2013; **Mazandaran**: 2♀, Chamestan, Gashpel park, 15 m, 36°28'N, 52°06'E, 26.06.2015; 1♂, Haraz road, Rineh, South mountainside of Damavand, 2500 m, 35°52'N, 52°06'E, 09.07.2014. **Qazvin**: 1♂, Khoznan, 2150 m, 36°06'N, 50°39'E, 07.07.2014.

### ***Trupanea amoena* (Frauenfeld, 1857)**

**Material examined.** **Alburz**: 1♂, Shahrestanak, 22.06.2009; **Chaharmahal & Bakhtiari**: 1♂, South part of Choghakhor lake, 2600 m, 31°53'N, 50°58'E, 08.06.2013; **Kohkiluyeh & Boyerahmad**: 1♂, 1♀, Sisakht, 2350 m, 30°51'N, 51°28'E, 25.05.2014; **West Azerbaijan**: 2♂, 1♀, Qazemloo valley, 1500 m, 37°18'N, 45°07'E, 19.06.2014.

### ***Trupanea pulcherrima* (Eflatoun, 1924)**

**Material examined.** **Khuzistan**: 1♀, Hamidieh, Sendijeh, 20 m, 20. I. 1997 (Mirzayans, Badii leg.) (HMIM).

### ***Trupanea stellata* (Fuesslin, 1775)**

**Material examined.** **Gilan**: 1♀, 5 km E Rostamabad, 05.06.2015 (Seddighi Sadr leg.); **Esfahan**: 1♂, 1♀, Abmalakh, 2150 m, 31°10'N, 50°21'E, 27.05.2014; **Qazvin**: 1♂, Khoznan, 2150 m, 36°06'N, 50°39'E, 12.05.2010; 1♀, same collection data, 07.07.2014; **West Azerbaijan**: 1♀, 10 km west Ziveh, 37°08'N, 44°52'E, 2630 m, 24.07.2011.

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